

Amendments to the Specification

Please replace the paragraph beginning on page 4, line 27, with the following rewritten paragraph:

The above mentioned rotor has a pair of rotor cores including claw portions generating N/S poles and a boss portion comprising the field winding. The pair of cores are arranged oppositely to each other at an end surface of the boss portion to form a ~~Roundell~~Lundell-type core. The magnetic coating is applied to at least one of the outer peripheral surfaces of the claw portions, the end surface of the boss portion, and an inner peripheral surface of the stator core. In the rotary electric machine having the ~~Roundell~~Lundell-type core, the claw portions are deformed by receiving centrifugal force during rotation. Therefore, it is necessary to secure the air gap more than in other rotary electric machines. However, in the rotary electric machine of the present invention, the magnetic coating is formed on the surface of the cores which face the air gap. Therefore, in case the magnetic coating makes contact with each other or contact with the core in accordance with the rotation deformation of the rotor core, only a part of the magnetic coating is peeled and separates. Accordingly, the actual air gap can be set smaller.

Please replace the paragraph beginning on page 6, line 7, with the following rewritten paragraph:

In this rotor used as a brushless generator, the claw portions are easily deformed due to centrifugal force during rotation. Therefore, it is necessary to set the air gap larger than that of a rotary electric machine having brushes. However, similar to the rotary electric machine having the ~~Roundell~~Lundell-type core, the magnetic coating is formed on the surface of the core defining the air gap. Therefore, in case the magnetic member contacts other magnetic members or the core in accordance with the rotation deformation of the rotor

core, only part of the magnetic coating peels and physically separates. Thus, the actual air gap can be set small.

Please replace the paragraph beginning on page 7, line 23, with the following rewritten paragraph:

FIG. 2 is a cross-sectional view of a generator for a vehicle having a rotor including a ~~round~~ Lundell core.

Please replace the paragraph beginning on page 12, line 21, with the following rewritten paragraph:

FIG. 2 is a cross-sectional view of an alternator for a vehicle which has a rotor including a ~~Round~~ Lundell-type core. The rotor 110 has a pair of rotor cores each of which includes claw pieces 100 producing N/S poles and a boss portion 102 having the rotor windings therearound. In this structure, two air gaps are formed on a main magnetic flux route generated by the field winding. One air gap is defined between the claw pieces 100 and an inner peripheral surface of the stator 120, and the other air gap is defined between opposing surfaces of the pair of boss portions 102. Therefore, the magnetic coating may be applied to the members which face the above air gaps.